

SEP 13 2006

Docket No. 501.43145X00

Serial No. 10/663,645

Office Action Dated: June 13, 2006

AMENDMENTS TO THE CLAIMS:

The following listing of claims replaces all prior listings, and all prior versions, of claims in the application.

LISTING OF CLAIMS:

1. (Currently Amended) A display apparatus comprising:

a display unit including a plurality of display elements arranged in a matrix;

a drive voltage generating circuit-for generating a drive voltage for driving said plurality of display elements;

a dataline drive circuit for generating a signal voltage according to display data, said signal voltage being for controlling the amount of current in ~~a supply line of said drive voltage~~ each display element;

a scanline drive circuit for selecting one or more of said plurality of display elements which is to be applied said signal voltage ~~driven~~; and

a control circuit for controlling a light emission time period in one frame period of each display element according to ~~a distance measured along a supply line on which said drive voltage is supplied~~ a current path from said drive voltage generating circuit to said each display element;-

wherein each display element comprises an emission element, capacitance element for storing charge corresponding to said signal voltage when said display element is selected by said scanline drive circuit, a drive element for flow through said emission element current according to said charge in said capacitance element, and switch element coupled between said emission element and said drive element, and

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wherein said switch element switches flowing or not through said emission element said current based on a control signal according to said distance to control said light emission time period in one frame period.

2. (Original) The display apparatus as claimed in claim 1, wherein said plurality of display elements exhibit a same luminance-level when they emit light if said display data is set to a same value.

3. (Canceled)

4. (Original) The display apparatus as claimed in claim 1, wherein said control circuit increases said light emission time period with increasing distance of said each display element from said drive voltage generating circuit.

5. (Currently Amended) The display apparatus as claimed in claim 4, further comprising: a detection circuit for detecting said amount of current in said supply line of said drive voltage;

wherein said control circuit increases a rate of increment of said light emission time period according to said distance with increasing amount of current in said supply line of said drive voltage, and-

wherein said rate of increment of said light emission time period according to said distance in case where said detected amount of current is larger than said rate of increment of said light emission time period according to said distance in case where said detected amount of current is small.

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6. (Currently Amended) The display apparatus as claimed in claim 4,

wherein said control circuit a rate of increases increment of said light emission time period according to said distance with increasing gray scale value represented by ~~of~~ said display data, and

wherein said rate of increment of said light emission time period according to said distance in case where said gray scale value is larger than said rate of increment of said light emission time period according to said distance in case where said distance in case where said gray scale value is small.

7. (Currently Amended) The display apparatus as claimed in claim 4, further comprising:

a detection circuit for detecting a luminance level of said plurality of display elements when they emit light;

wherein said control circuit increases a rate of increment of said light emission time period according to said distance with increasing as said luminance level, and increases at said drive voltage,

wherein said rate of increment of said light emission time period according to said distance in case where said luminance level is larger than said rate of increment of said light emission time period according to said distance in case where said luminance level is small.

8. (Currently Amended) The display apparatus as claimed in claim 1, wherein said control circuit inserts black display data into said between frames of display data and controls either a timing or a time of said insertion of said black display data, or both, so as to control said light emission time period.

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9. (Currently Amended) The display apparatus as claimed in claim 1,
wherein said control circuit inserts additional display data ~~into said~~ between frames
of display data and controls either a timing or a time of said insertion of said
additional display data or both, said additional display data having a luminance level
lower than that of said display data.

10. (Currently Amended) A display apparatus comprising:

a display unit including a plurality of display elements arranged in a matrix; a
drive voltage generating circuit for generating a drive voltage for driving said plurality
of display elements;

a dataline drive circuit for generating a signal voltage according to display
data, said signal voltage being for controlling the amount of current in each display
element; ~~a supply line of said drive voltage; and~~

a scanline drive circuit for selecting one (or more) of said plurality of display
elements which is to be applied said signal voltage ~~driven~~;

wherein a light emission time period of each display element varies according
to a location of said each display element;

wherein each display element comprises an emission element, capacitance
element for storing charge corresponding to said signal voltage when said display
element is selected by said scanline drive circuit, a drive element for flow through
said emission element current according to said charge in said capacitance element,
and switch element coupled between said emission element and said drive element,
and

wherein said switch element switches flowing or not through said emission
element said current based on a control signal according to a distance measured

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along a supply line on which said drive voltage is supplied from said drive voltage;
generating circuit to said each display element, to control said light emission time
period in one frame period.

11. (Original) The display apparatus as claimed in claim 10, further comprising:
a control circuit for controlling said light emission time period according to said location.

12. (Original) The display apparatus as claimed in claim 10, wherein when said plurality of display elements exhibit a same luminance level at a time of emitting light, said light emission time period of said each display element varies according to said location.

13. (Original) The display apparatus as claimed in claim 10, wherein a light emission time period of a display element in an upper row is shorter than that of a display element in a lower row, said display element in said upper row and said display element in said lower row being among said plurality of display elements.

14. (Original) The display apparatus as claimed in claim 10, wherein a light emission time period of a display element in a lower row is shorter than that of a display element in an upper row, said display element in said lower row and said display element in said upper row being among said plurality of display elements.

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15. (Original) The display apparatus as claimed in claim 10, wherein a light emission time period of a display element in a left column is shorter than that of a display element in a right column, said display element in said left column and said display element in said right column being among said plurality of display elements.

16. (Original) The display apparatus as claimed in claim 10, wherein a light emission time period of a display element in a right column is shorter than that of a display element in a left column, said display element in said right column and said display element in said left column being among said plurality of display elements.

17. (New) The display apparatus as claimed in claim 1,
wherein said supply line is coupled with said plurality of display elements for each column of said plurality of display elements display elements.

18. (New) The display apparatus as claimed in claim 1,
wherein said control signal is supplied to said plurality of display elements from said control circuit for each line of said plurality of display elements.

19. (New) The display apparatus as claimed in claim 1,
wherein said control signal is not dependent on said display data.